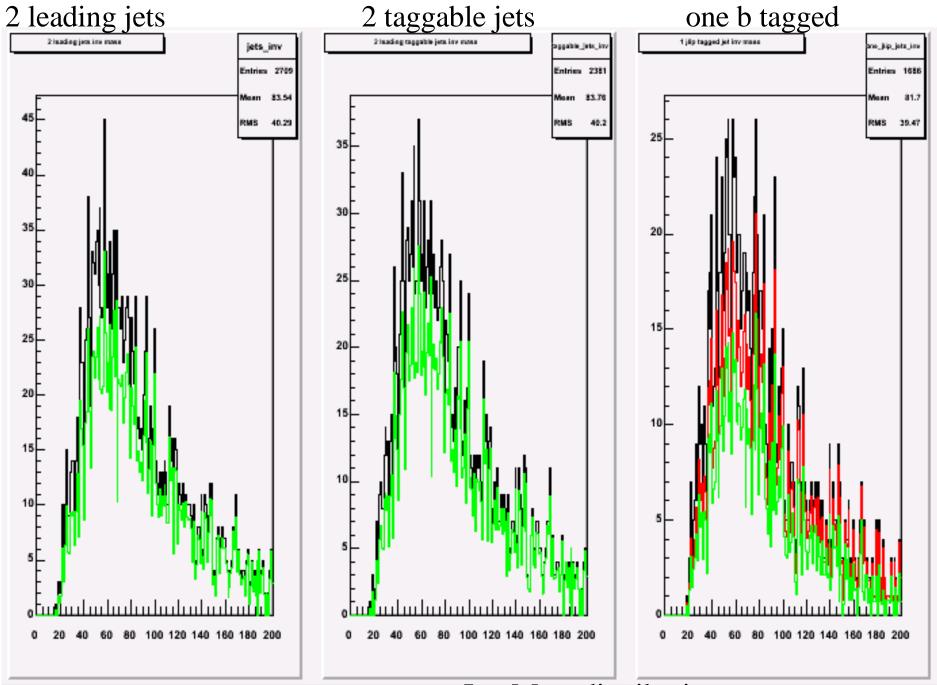
$ZH \rightarrow e e b b$

James Heinmiller Multi-Lepton Higgs 13JAN04

Scale Factors

Smeared electron pt
Scale factor for electrons eta, phi
Smeared the jet pt
Jet Reco scale factor
jlip scale factor



Inv Mass distributions

Normalization of MC

Sigma = Number events in MC / Luminosity

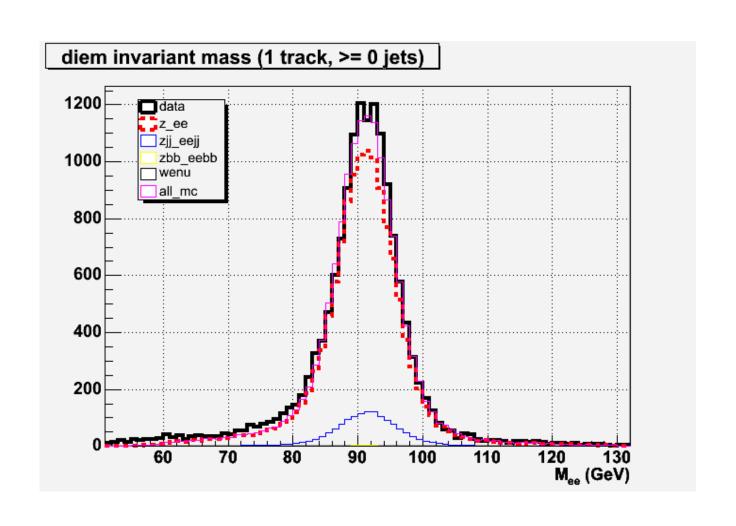
Sigma MCFM NLO Z->ee inclusive ~ 255pb

EM1TRK lumi 336.8

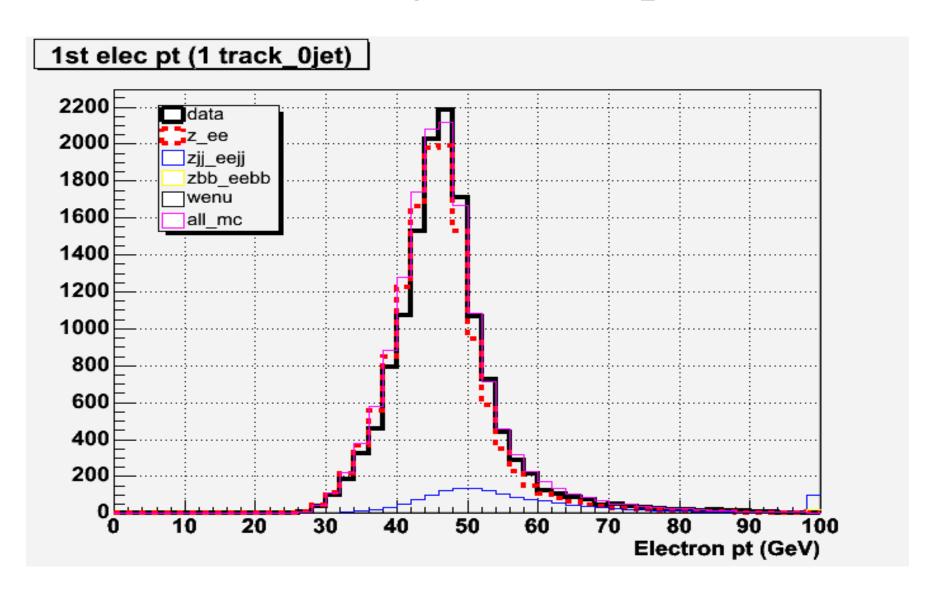
need MC events is = Lumi_data * MCFM cross section

Scale down my MC distributions by: # events in MC / # events needed

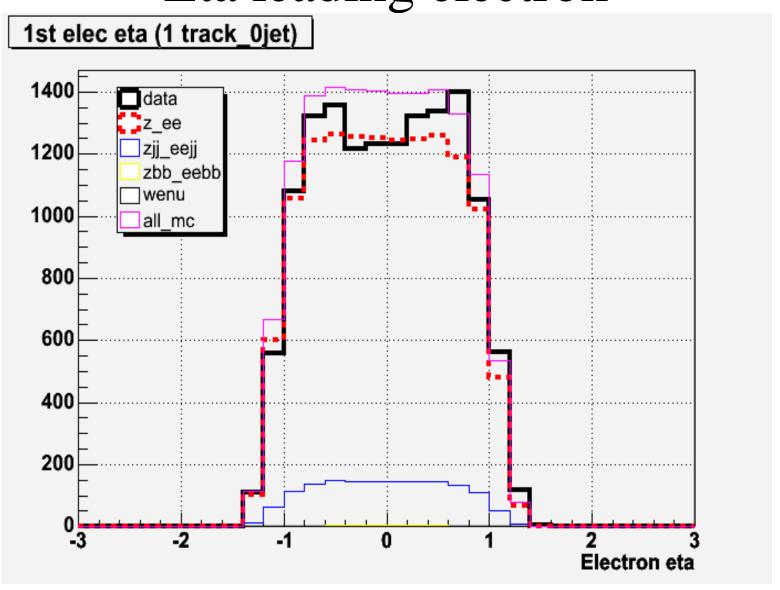
Z peak



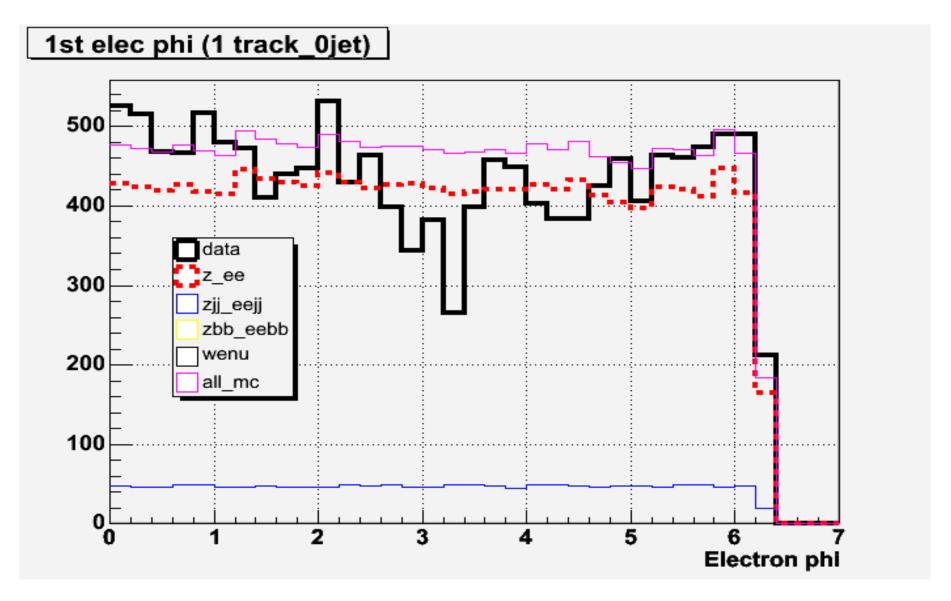
Leading electron pt



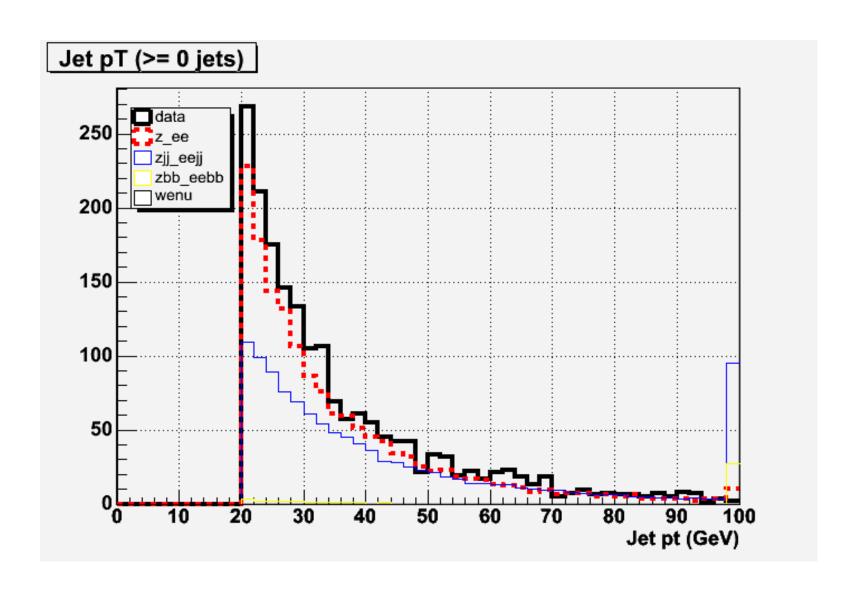
Eta leading electron



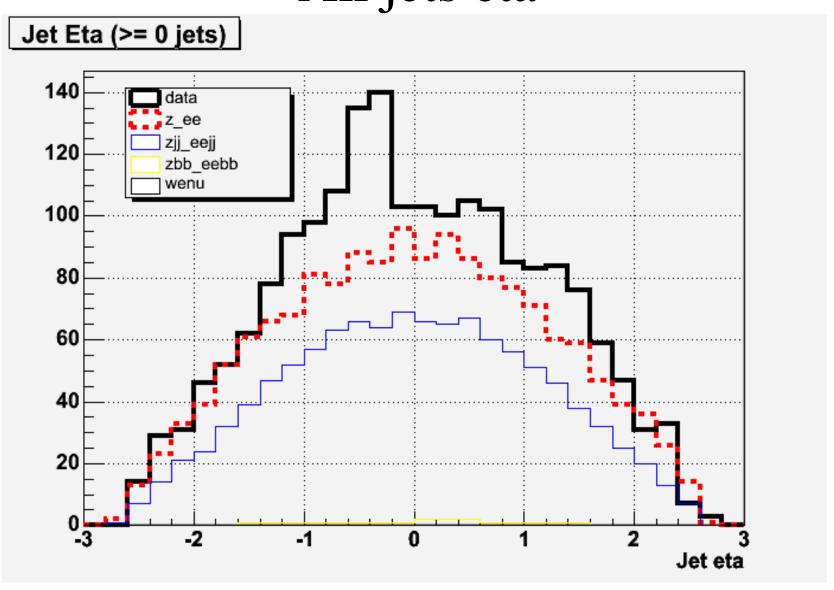
Leading electron phi



All Jets pt

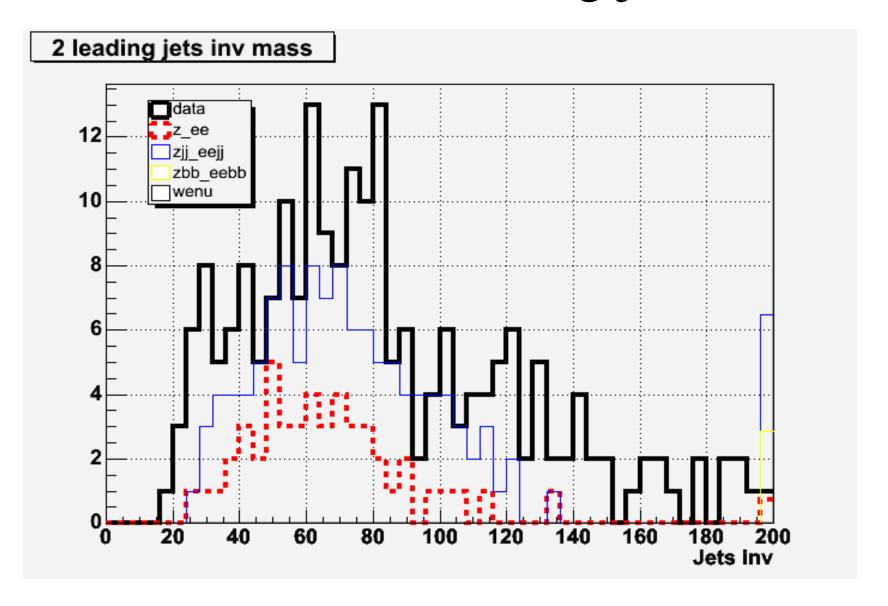


All jets eta

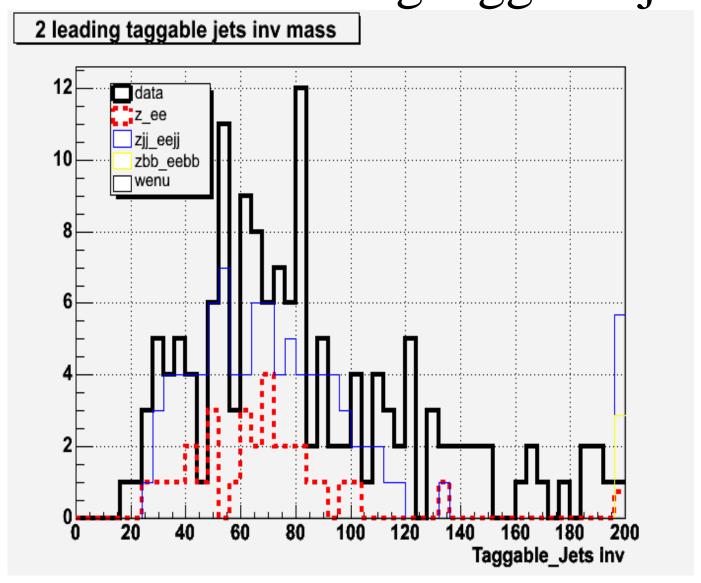


Some Numbers

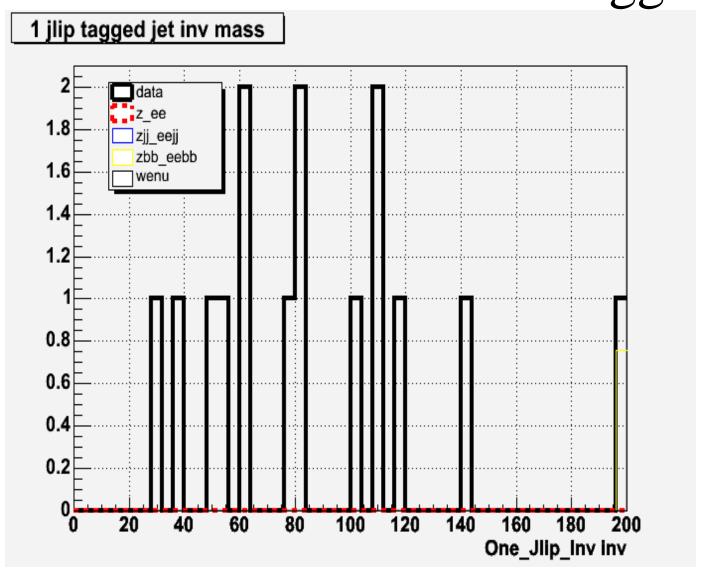
Inv mass 2 leading jets



Inv Mass 2 leading taggable jets



Inv mass 1 JLIP loose & 1 taggable



Conclusion

Need to understand the normalization of MC Need to understand electron pt discrepency Replot all the distributions Include the rest of the backgrounds